



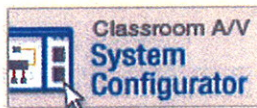
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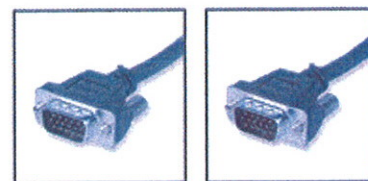
MVGA M-M

Male to Male Micro VGA Cables

Key Features

- Thin, flexible cable with low profile VGA connectors
- Pin 9 is passed through from end to end
- Ideal for use in Cable Cubby® products
- Designed for transmission of computer video and ID bit signals
- Terminated with high quality molded VGA connectors
- AWM 20276 rated, non-plenum cable

[See All Features](#)



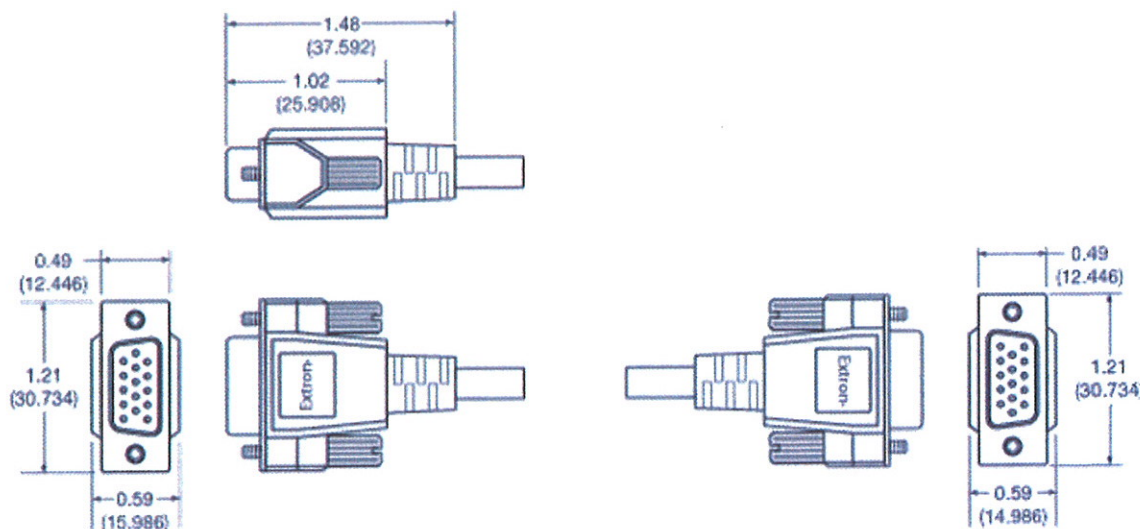
MVGA M-M

| Model | Version Description | Part # |
|-------------|---------------------|-----------|
| MVGA M-M/3 | 3' (90 cm) | 26-567-01 |
| MVGA M-M/6 | 6' (1.8 m) | 26-567-02 |
| MVGA M-M/12 | 12' (3.6 m) | 26-567-03 |
| MVGA M-M/25 | 25' (7.6 m) | 26-567-04 |

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MVGA M-M Series



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VSW 2VGA A

Two Input VGA and Stereo Audio Switcher

Key Features

- 300 MHz (-3 dB) RGB video bandwidth
- Compatible with VGA-QXGA and HDTV component video signals
- Buffered loop through for input one
- ID bits from inputs 1 and 2 are routed to the output
- Auto-input switching
- Contact closure remote control
- Front panel toggle switch for input selection
- Through-desk, under-desk, and projector-mountable
- External universal ENERGY STAR® qualified power supply included, replacement part # 70-775-01



| Model | Version Description | Part # |
|------------|-------------------------|-----------|
| VSW 2VGA A | Two Input VGA and Audio | 60-758-01 |

DESCRIPTION

The Extron **VSW 2VGA A** is a compact and economical two input, one output, active switcher for VGA and stereo audio. It allows users to select between two VGA sources with audio and route the selected source to a video output device such as a data monitor or projector. In addition, the VSW 2VGA A provides a buffered local monitor output for input one. Multiple VSW 2VGA A switchers can be daisy-chained using Extron high performance pre-fabricated VGA cable to create a multi-user presentation system.

The VSW 2VGA A switches a variety of analog video signals at VGA-QXGA resolutions, including RGBHV, RGBS, RGsB, RGBHVS, and other high resolution computer video signals. Multiple forms of control are provided, including front-panel buttons, contact closure, and auto-input switching. In auto-input switch mode, input sources are selected automatically when the switcher detects an active sync signal, making the VSW 2VGA A ideal for automatic routing and unattended operation.

The VSW 2VGA A is housed in a quarter rack width metal enclosure, and its flexible mounting options make it ideal for integration into conference rooms, classrooms, multimedia production systems, and other high resolution, computer video environments.

Features

- **Inputs:** Video on female 15-pin HD connectors; audio on 3.5 mm stereo mini jacks
- **Outputs:** Video on female 15-pin HD connectors; audio on 3.5 mm stereo mini jacks
- **300 MHz (-3 dB) RGB video bandwidth**
- **Compatible with VGA-QXGA and HDTV component video signals**
- **Buffered loop through for input one**
- **ID bits from inputs 1 and 2 are routed to the output**
- **Auto-input switching** — Automatically switches to the highest-numbered input with an active video signal.

| | |
|---------------------|---|
| Input type | RGBHV, RGBS, RGsB*, RsGsBs*, bi-level and tri-level (HDTV) component video sync |
| Output type | RGBHV, RGBS, RGsB*, RsGsBs*, bi-level and tri-level (HDTV) component video sync (follows input) |
| Input level | 1.8 V to 5.0 Vp-p |
| Output level | TTL: 5.0 V p-p, unterminated |
| Input impedance | 510 ohms |
| Output impedance | 50 ohms |
| Max. input voltage | 5.0 Vp-p |
| Max. rise/fall time | 40 ns |
| Polarity | Positive or negative (follows input) |

Audio

| | |
|---------------------------|---|
| Gain | Unbalanced output: 0 dB |
| Frequency response | 20 Hz to 20 kHz, ± 0.05 dB |
| THD + Noise | 0.002% @ 1 kHz at nominal level (-10 dBV) |
| S/N | 94 dB at maximum output (unweighted) |
| Crosstalk | -50 dB @ 20 kHz, -75 dB @ 1 kHz and below 60 Hz |
| Stereo channel separation | 96 dB @ 1 kHz |

Audio input

| | |
|--------------------|----------------------------------|
| Number/signal type | 2 stereo, unbalanced |
| Impedance | 22k ohms unbalanced, AC coupled |
| Nominal level | -10 dBV (316 mVrms) |
| Maximum level | +9 dBV, (unbalanced) at 1% THD+N |

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio output

| | |
|-------------------------|--|
| Number/signal type | 1 stereo, unbalanced |
| Connectors | (1) 3.5 mm mini audio jack (tip, ring, sleeve) |
| Impedance | 50 ohms unbalanced |
| Maximum level (Hi-Z) | >+9 dBV, unbalanced at 1% THD+N |
| Maximum level (600 ohm) | >+7 dBV, unbalanced at 1% THD+N |

Control/remote – switcher

| | |
|------------------------------------|--|
| Contact closure | (1) 3.5 mm captive screw connector, 3 pole for momentary contact |
| Contact closure pin configurations | 1 = input 1 select, 2 = input 2 select, 3 = GND Shorting all three pins together enables autoswitch mode. |
| Loop signal | Momentary low, 250 μ s |

General

| | |
|--------------------------|---|
| External power supply | 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A (max.), regulated |
| Power input requirements | 12 VDC, 0.1 A |
| Mounting | |
| Rack mount | Yes, with optional 1U rack shelf |
| Furniture mount | Yes, with optional under-desk mounting kit or through-desk mounting kit |
| Pole mount | Yes, with optional pole mount kit |
| Enclosure type | Metal |
| Enclosure dimensions | 1.0" H x 4.3" W x 3.0" D (quarter rack wide) 2.5 cm H x 10.9 cm W x 7.6 cm D (Depth excludes connectors.) |
| Product weight | 0.5 lb (0.3 kg) |
| Shipping weight | 3 lbs (2 kg) |
| Regulatory compliance | |
| Listings | CE, c-UL, UL |
| Compliances | CE, C-tick, FCC Class A, ICES, VCCI |

(7.6-102109-D6)

DIAGRAM

ASA 304

Quad Active Audio Summing Amplifier with Captive Screw Inputs

Key Features

- Converts stereo audio to balanced or unbalanced mono audio
- Stereo inputs and mono outputs on captive screw connectors
- ± 6 dB output gain switch
- Rack-mountable 1U, quarter rack width metal enclosure



Model
ASA 304

Version Description
Captive Screw Input

Part #
60-552-20

DESCRIPTION

The Extron ASA 304 is a high performance Audio Summing Amplifier that converts two-channel stereo audio signals to balanced or unbalanced mono audio signals. It is ideal for summing stereo signals for use in mono multi-speaker PA systems in churches, halls, arenas, stadiums, and other environments where stereo signals would result in cancellation.

The ASA 304 offers four independent, active audio summing amplifiers in a single enclosure. It converts stereo audio signals from four different sources to mono audio signals and includes switch-selectable gain to achieve different output gain levels. The ASA 304 accepts balanced or unbalanced stereo input signals on captive screw connectors and provides balanced/unbalanced outputs on captive screw connectors. This high performance summing amplifier enables long cable runs and immunity from interference and noise normally associated with the use of unbalanced audio equipment in professional integration projects.

The ASA 304 is housed in a 1U, quarter rack width metal enclosure, is easy to install in small spaces, and is rack and under-desk mountable. It can also be mounted at the projector using the Extron series of PMK - Projector Mounting Kit products.

Features

- **Four, independent active audio summing amplifiers in a single enclosure**
- **Converts stereo audio to balanced or unbalanced mono audio**
- **Stereo inputs and mono outputs on captive screw connectors**
- **± 6 dB output gain switch**
- **Rack-mountable 1U, quarter rack width metal enclosure**
- **External universal ENERGY STAR® qualified power supply included, replacement part # 70-775-01** — Provides worldwide compatibility, low power consumption, and reduced operating costs.

OPTIONAL ACCESSORIES

- RSB 129
- RSU 129

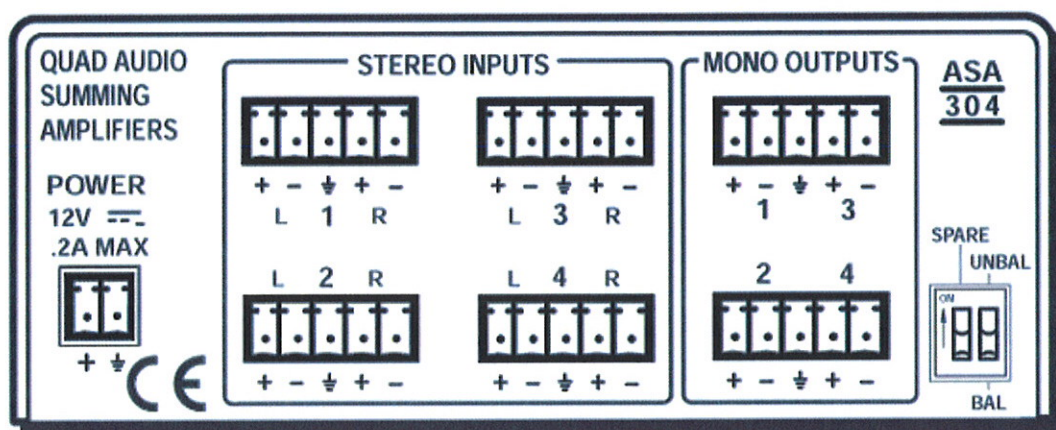
Basic Rack Shelf for 9.5" Deep Products
Universal Rack Shelf Kit for 9.5" Deep Products

| | |
|-----------------------|--|
| Furniture mount | Yes, with optional mini under desk mounting kit |
| Pole mount | Yes, with optional mini projector mounting kit |
| Enclosure type | Metal |
| Enclosure dimensions | 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.3 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.) |
| Product weight | 0.5 lbs (0.3 kg) |
| Shipping weight | 3 lbs (2 kg) |
| Vibration | ISTA 1A in carton (International Safe Transit Association) |
| Regulatory compliance | |
| Safety | CE, c-UL, UL |
| EMI/EMC | CE, C-tick, FCC Class A, ICES, VCCI |
| MTBF | 30,000 hours |
| Warranty | 3 years parts and labor |

NOTE All nominal levels are at $\pm 10\%$.

(7.6-101609-D11)

DIAGRAM



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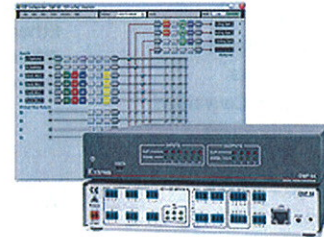
DMP 64

ProDSP™ Digital Matrix Processor

Key Features

- 6x4 mic/line audio matrix mixer
- ProDSP™ audio signal processing
- Studio grade 24-bit/48 kHz analog-to-digital and digital-to-analog converters
- Fixed, low latency DSP processing
- DSP Configurator™ Software
- Intuitive Graphical User Environment

[See All Features](#)



DMP 64

[zoom/more views](#) [360° view](#)



| Model | Version Description | Part # |
|--------|---------------------------------|------------|
| DMP 64 | ProDSP Digital Matrix Processor | 60-1054-01 |

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DMP 64

Audio

| | |
|--------------------|---|
| Gain | Unbalanced output: -6 dB; balanced output: 0 dB |
| Frequency response | 20 Hz to 20 kHz, ±0.1 dB |
| THD + Noise | <0.01% @ 1 kHz, at maximum output level |
| S/N | >105 dB, 20 Hz to 20 kHz, at maximum output, unweighted |
| Crosstalk | <-90 dB @ 1 kHz, fully loaded |
| CMRR | >70 dB @ 1 kHz |

Audio input

| | |
|--------------------|--|
| Number/signal type | 6 mono, mic/line, balanced/unbalanced |
| Connector | (6) 3.5 mm captive screw connectors, 3 pole |
| Impedance | >10k ohms unbalanced/balanced |
| Nominal level | +4 dBu when level is set to 0 dB gain; adjustable from -60 dBu to +4 dBu |
| Maximum level | +24 dBu, balanced, when input gain is set to -3 dB |
| Noise level | <-120 dBV (1 µVrms) at 40 dB gain |
| Volume range | -18 dB to +80 dB, mic/line input, adjustable per input |
| Mic phantom power | +48 VDC, which can be switched on or off |

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio processing

| | |
|----------------|-------------------------|
| D/A conversion | 24 bit, 48 kHz sampling |
|----------------|-------------------------|



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SW RGBHV Series

RGBHV and Stereo Audio Switchers

Key Features

- 350 MHz (-3 dB) RGB video bandwidth
- Compatible with RGBHV, RGBS, RGSB, RsGsBs, HDTV, component video, S-video, and composite video
- Automatically detects which inputs have an active signal and reports this information through the RS-232 port
- Audio input gain and attenuation
- Auto-input switching
- RS-232 control

[See All Features](#)



SW RGBHV Series

[zoom/more views](#)

| Model | Version Description | Part # |
|-------------|--------------------------|-----------|
| SW2 RGBHV | Two Input RGBHV | 60-491-01 |
| SW2 RGBHV A | Two Input RGBHV & Audio | 60-491-21 |
| SW4 RGBHV | Four Input RGBHV | 60-492-01 |
| SW4 RGBHV A | Four Input RGBHV & Audio | 60-492-21 |
| SW6 RGBHV | Six Input RGBHV | 60-493-01 |

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SW2/4/6 RGBHV and SW2/4/6 RGBHV A

Video

| | |
|-----------------|-----------------|
| Gain | Unity. |
| Bandwidth | 350 MHz (-3 dB) |
| Crosstalk | -70 dB @ 10 MHz |
| Switching speed | 5 ms (max.) |

Video input

| | |
|----------------------------|--|
| Number/signal type | 2 RGBHV, RGBS, RGSB, RsGsBs, HDTV component video, S-video, composite video (or digital audio) |
| SW2 RGBHV/RGBHV A | 4 RGBHV, RGBS, RGSB, RsGsBs, HDTV component video, S-video, composite video (or digital audio) |
| SW4 RGBHV/RGBHV A | 6 RGBHV, RGBS, RGSB, RsGsBs, HDTV component video, S-video, composite video (or digital audio) |
| SW6 RGBHV/RGBHV A | |
| Connectors | 2 x 5 female BNC |
| SW2 RGBHV/RGBHV A | 4 x 5 female BNC |
| SW4 RGBHV/RGBHV A | 6 x 5 female BNC |
| SW6 RGBHV/RGBHV A | |
| Nominal level | 1.0 Vp-p for Y of component video and S-video, and for composite video |
| | 0.7 Vp-p for RGB and for R-Y and B-Y of component video |
| | 0.3 Vp-p for C of S-video |
| Minimum/maximum levels | Analog: 0.3 V to 1.5 Vp-p with no offset |
| Impedance | 75 ohms |
| Return loss | <-30 dB @ 10 MHz |
| DC offset (max. allowable) | 5.0V |
| Input coupling | DC |

Video output

| | |
|------------------------|--|
| Number/signal type | 1 RGBHV, RGBS, RGSB, RsGsBs, HDTV component video, S-video, composite video (or digital audio) |
| Connectors | 5 female BNC |
| Nominal level | 1.0 Vp-p for Y of component video and S-video, and for composite video |
| | 0.7 Vp-p for RGB and for R-Y and B-Y of component video |
| | 0.3 Vp-p for C of S-video |
| Minimum/maximum levels | 0.5 V to 1.5 Vp-p (follows input) |
| Impedance | 75 ohms |
| Return loss | <-30 dB @ 10 MHz |
| DC offset | ±5 mV maximum with input at 0 offset |

Sync

| | |
|------------------------|--|
| Input type | RGBHV, RGBS, RGSB, RsGsBs, bi-level and tri-level sync |
| Output type | RGBHV, RGBS, RGSB, RsGsBs, bi-level and tri-level sync |
| Input level | Analog or TTL, 0.5 V to 5.0 Vp-p |
| Output level | 5.0 Vp-p, unterminated, for V output; H output follows input |
| Input impedance | 510 ohms for V input and unselected H input; the selected H input impedance is determined by the device connected to the H output. |
| Output impedance | 75 ohms for V output; the H output impedance is determined by the device connected to the selected H input. |
| Max. input voltage | 5.0 Vp-p |
| Max. propagation delay | 35 ns |
| Max. rise/fall time | 4 ns |
| Polarity | Positive or negative (follows input) |

Specifications — SW2/4/6 RGBHV and SW2/4/6 RGBHV A

Video

| | |
|-----------------------|-----------------|
| Gain | Unity. |
| Bandwidth..... | 350 MHz (-3 dB) |
| Crosstalk..... | -70 dB @ 10 MHz |
| Switching speed | 5 ms (max.) |

Video input

| | |
|---------------------------------|--|
| Number/signal type | |
| SW2 RGBHV/RGBHV A.. | 2 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (or digital audio) |
| SW4 RGBHV/RGBHV A.. | 4 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (or digital audio) |
| SW6 RGBHV/RGBHV A.. | 6 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (or digital audio) |
| Connectors | |
| SW2 RGBHV/RGBHV A.. | 2 x 5 female BNC |
| SW4 RGBHV/RGBHV A.. | 4 x 5 female BNC |
| SW6 RGBHV/RGBHV A.. | 6 x 5 female BNC |
| Nominal level | 1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video |
| Minimum/maximum levels..... | Analog: 0.3 V to 1.5 Vp-p with no offset |
| Impedance | 75 ohms |
| Return loss..... | <-30 dB @ 10 MHz |
| DC offset (max. allowable)..... | 5.0V |
| Input coupling | DC |

Video output

| | |
|-----------------------------|--|
| Number/signal type..... | 1 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (or digital audio) |
| Connectors | 5 female BNC |
| Nominal level | 1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video |
| Minimum/maximum levels..... | 0.5 V to 1.5 Vp-p (follows input) |
| Impedance | 75 ohms |
| Return loss..... | <-30 dB @ 10 MHz |
| DC offset | ±5 mV maximum with input at 0 offset |

Sync

| | |
|------------------------------|--|
| Input type | RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync |
| Output type..... | RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync |
| Input level | Analog or TTL, 0.5 V to 5.0 Vp-p |
| Output level | 5.0 Vp-p, unterminated, for V output; H output follows input |
| Input impedance | 510 ohms for V input and unselected H input; the selected H input impedance is determined by the device connected to the H output. |
| Output impedance | 75 ohms for V output; the H output impedance is determined by the device connected to the selected H input. |
| Max. input voltage..... | 5.0 Vp-p |
| Max. propagation delay | 35 ns |
| Max. rise/fall time | 4 ns |
| Polarity..... | Positive or negative (follows input) |

Program control..... Extron control/configuration program for Windows®
Extron Simple Instruction Set (SIS™)

General

Power 100 VAC to 240 VAC, 50-60 Hz, 20 watts, internal

Temperature/humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing

Cooling Convection, no vents

Rack mount

 SW2 RGBHV, SW2 RGBHV A
 Yes, with optional 1U deep rack shelf

 All other models..... Yes, with included mounting kit

Enclosure type Metal

Enclosure dimensions

 SW2 RGBHV, SW2 RGBHV A
 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide)
 4.4 cm H x 22.2 cm W x 24.1 cm D
 (Depth excludes connectors.)

 All other models..... 1.75" H x 17.5" W x 8.5" D (1U high, full rack wide)
 4.4 cm H x 44.5 cm W x 21.6 cm D
 (Depth excludes connectors.)

Product weight

 SW2 RGBHV 2.4 lbs (1.1 kg)

 SW2 RGBHV A 2.5 lbs (1.1 kg)

 All other models..... 7.0 lbs (3.2 kg)

Shipping weight

 SW2 RGBHV, SW2 RGBHV A
 5 lbs (3kg)

 All other models..... 12 lbs (6 kg)

Vibration..... ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

 Safety..... CE, c-UL, UL

 EMI/EMC CE, C-tick, FCC Class A, ICES, VCCI

MTBF..... 30,000 hours

Warranty..... 3 years parts and labor

NOTE All nominal levels are at ±10%.

NOTE Specifications are subject to change without notice.

7.6-102009-D6